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**Product Data Sheet**


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Product Name: NCALD Human  
 Cat. No.: GP24009  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Rocalcin Delta; MGC33870; MGC74858; Neurocalcin-Delta.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGKQNSKLRP EVMQDLLEST DFTEHEIQEW YKGLRDCPS GHLSMEEFKK IYGNFFPYGD ASKFAEHVFR TFDANGDGTI DFREFIIALS VTSRGKLEQK LKWAFSMYDL DGNGYISKAE MLEIVQAIYK MVSSVMKMPE DESTPEKRTE KIFRQMDTNR DGKLSLEEFI RGAKSDPSIV RLLQCDPSSA GQF.		
Formulation	The NCALD protein solution (0.5mg/1ml) is formulated in 20 mM Tris-HCl buffer (pH8.0), 100mM NaCl, 1mM DTT and 40% glycerol.		

**Introduction**

NCALD belongs to the neuronal calcium sensor (NCS) family. NCALD is cytosolic at inactive calcium levels; but, high intracellular calcium levels induce a conformational transformation which exposes the myristoyl group, causing protein association with membranes and partial co-localization with the perinuclear trans-golgi network. NCALD protein is a regulator of signal transduction by G protein-coupled receptor.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

**Background**

NCALD produced in E.Coli is a single, non-glycosylated polypeptide chain containing 213 amino acids (1-193.a.a) and having a molecular mass of 24.4kDa. NCALD is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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